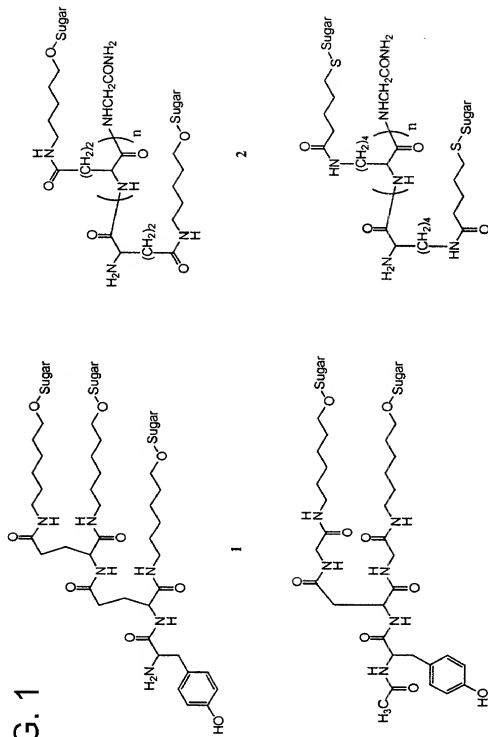


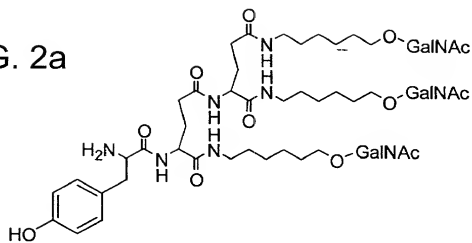
FIG. 1



^asugar may be, but is not restricted to, any of the following sugars: glucose, N-acetylglucosamine, galactose, N-acetylgalactose, mannose, fucose.

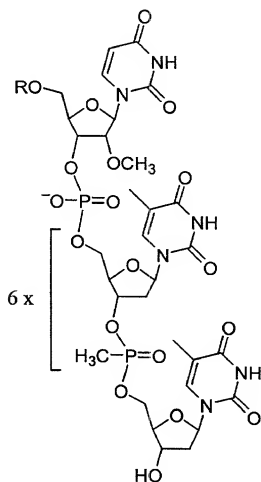
^bFolic acid may be used in place of the sugar residues

FIG. 2a



5

FIG. 2b



6a R = H

6b R = $\text{--P(=O)(O}^-\text{)NHCH}_2\text{CH}_2\text{NH}_3^+$

FIG. 2c

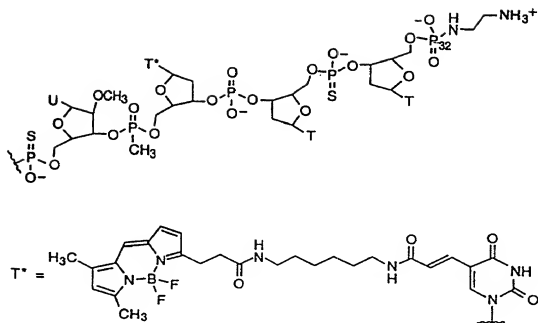


FIG. 2d

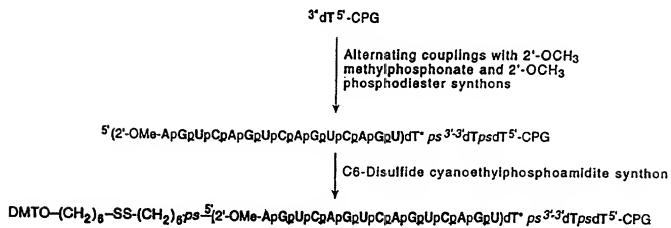


FIG. 3

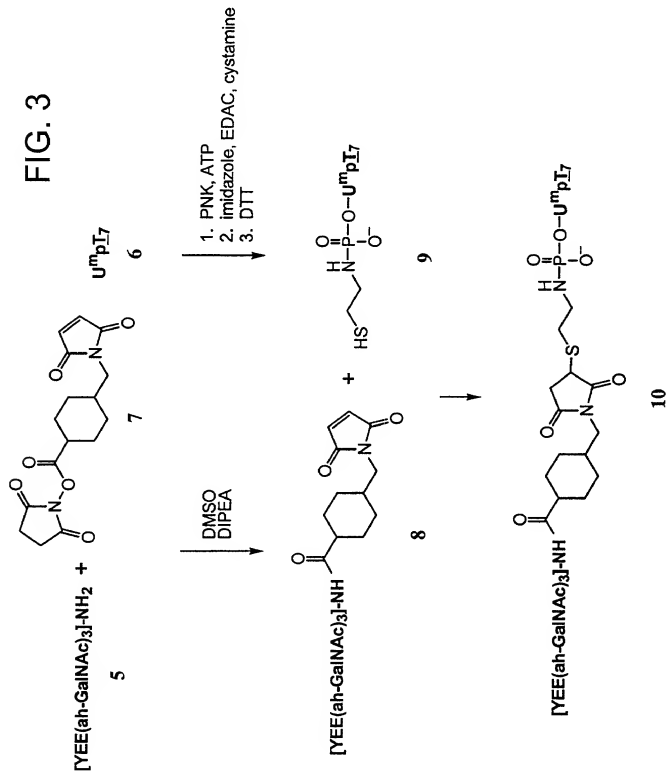
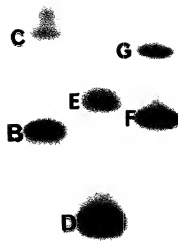


FIG. 4

1 2 3 4

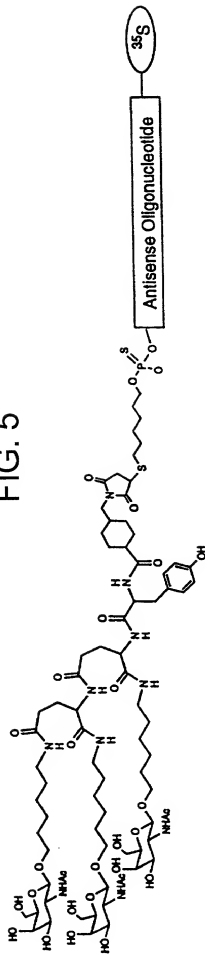


XC> A

1.0000

00000101-000001

FIG. 5



Antisense Oligonucleotide	where is either	NG1	NG2	NG3	NG4	Surface Antigen
		GTT CTC CAT GTT CAG	TTT ATA AGG GTC GAT GTC CAT	AAA GCC ACC CAA GGC A	TGA GCT ATG CAC ATT CAG ATT T	Core
						Encapsidation
						Random

FIG. 6

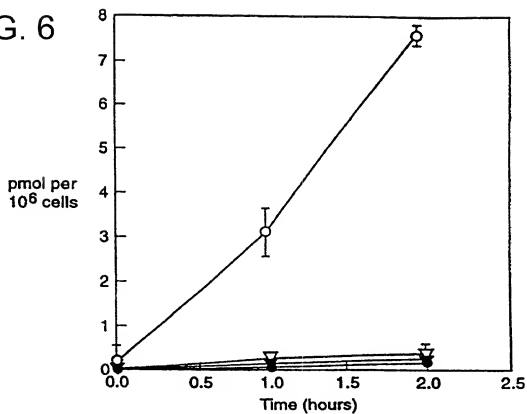


FIG. 7

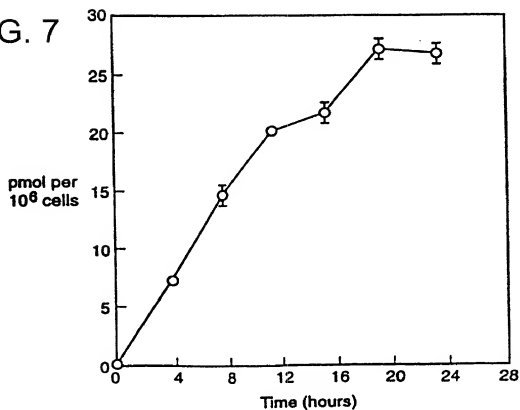
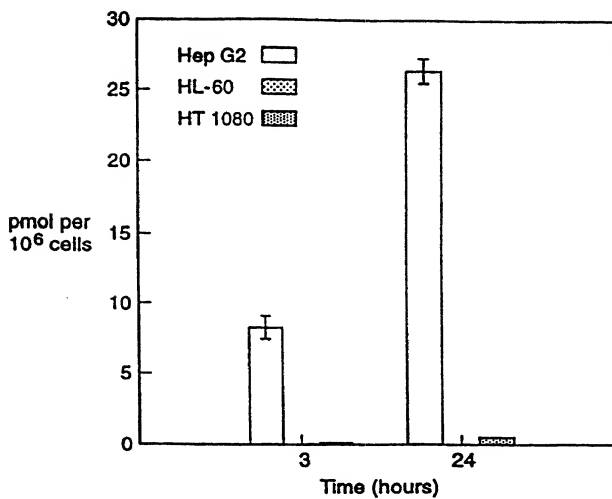


FIG. 8



NUCLEASE RESISTANT NEOGLYCOCONJUGATE UPTAKE BY HEP G2 CELLS

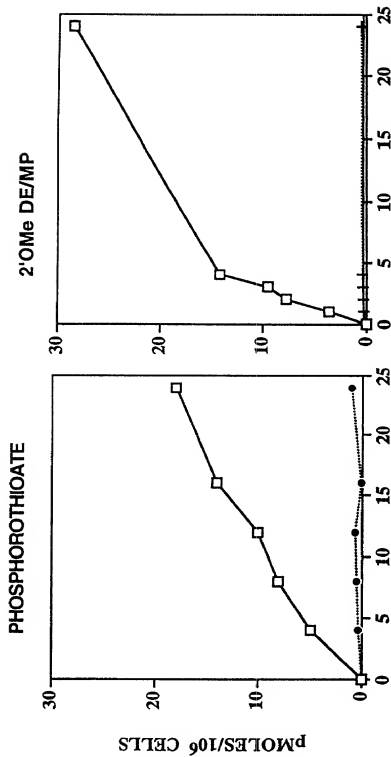


FIG. 10
NUCLEASE RESISTANT NEOGLYCONUGATE UPTAKE
BY HEP G2 2.2.15 CELLS

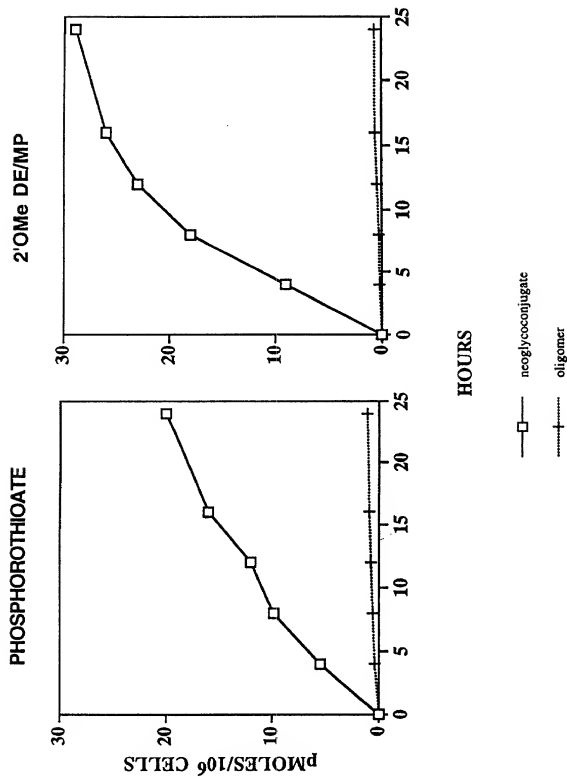


FIG. 11

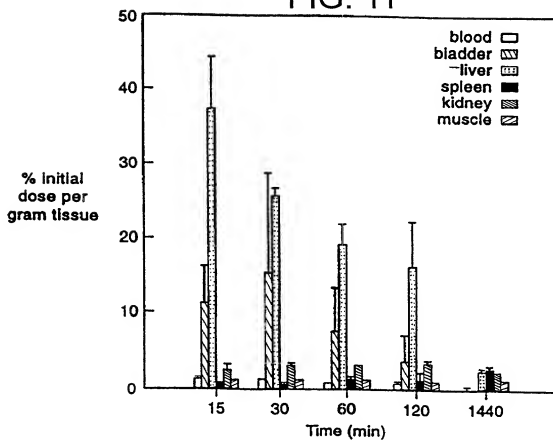
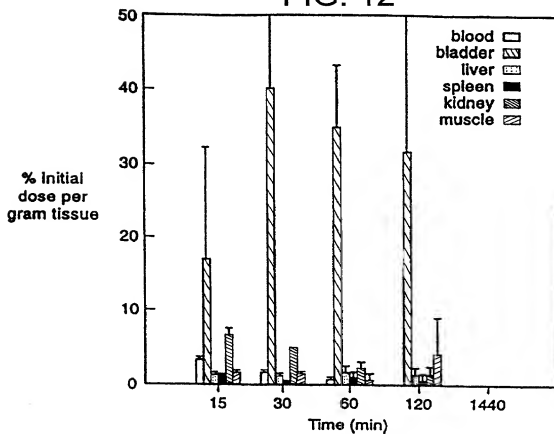


FIG. 12



Tissue Distribution in Mice of {S-35}-Labeled Antisense Phosphorothioate Oligomer Against HBV

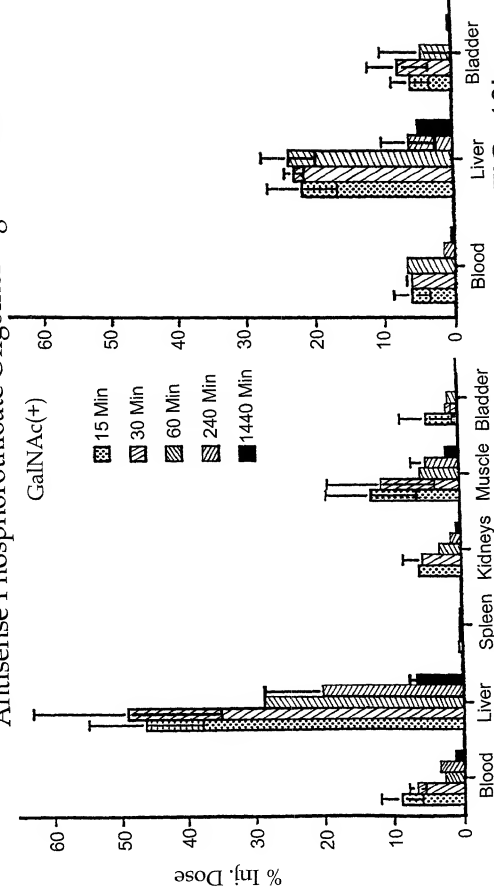


FIG. 13a

FIG. 13b

FIG. 14

1 2 3 4 5 6 7 8

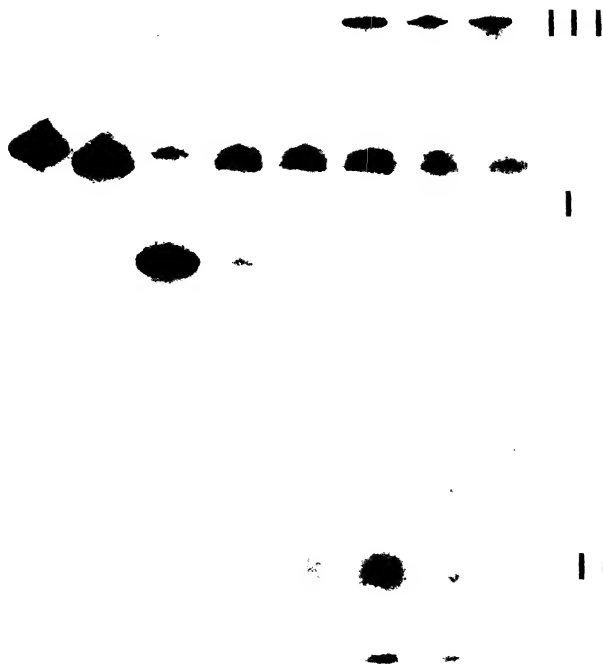
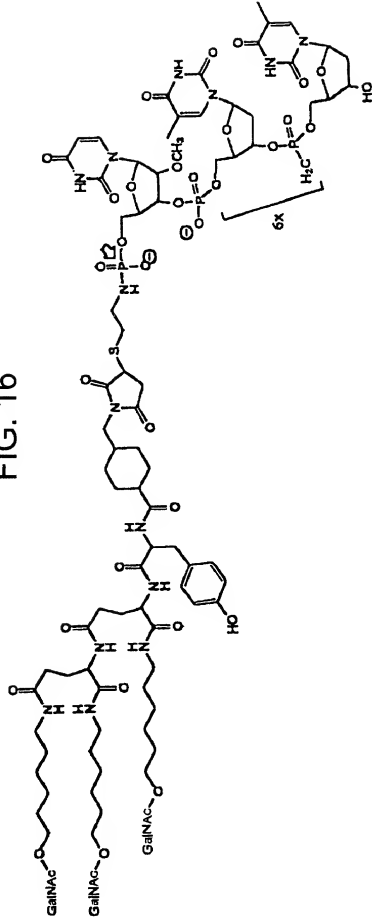


FIG. 15



FIG. 16



10: YEE(ahGalNAc)₃-SMCC-AET-pU^mpL₇

11: YEE(ah)₃-SMCC-AET-pU^mpL₇

12: [Y]-SMCC-AET-pU^mpL₇

13: pU^mpL₇

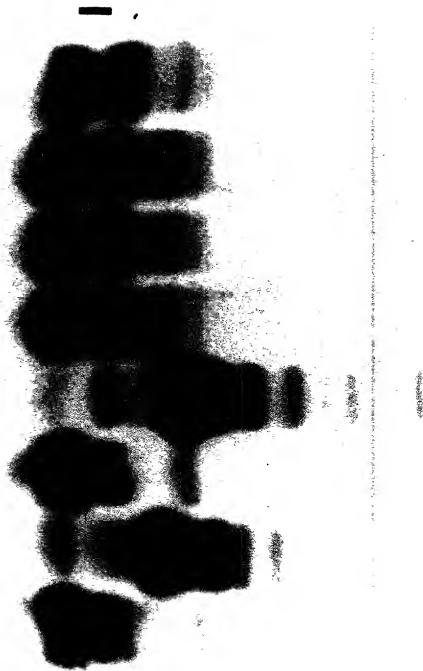
14: YEE(ahGalNAc)₂-SMCC-AET-pU^mpL₇

15: YEE(ahGalNAc)₃-SMCC-AET-pU^m

1990-1991

1 2 3 4 5 6 7 8

FIG. 17



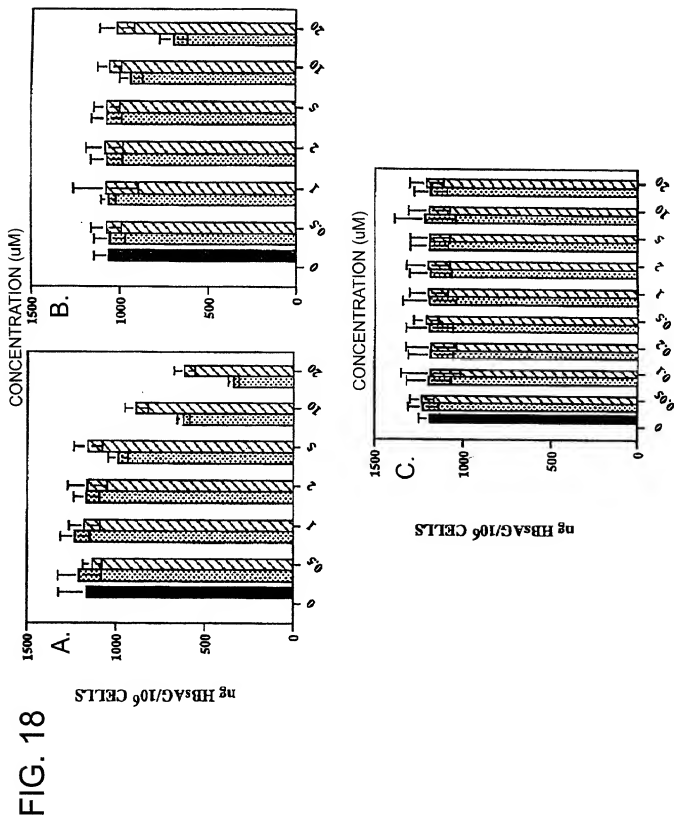


FIG. 19

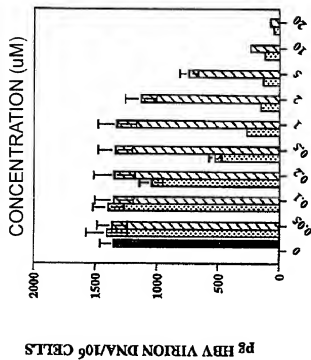
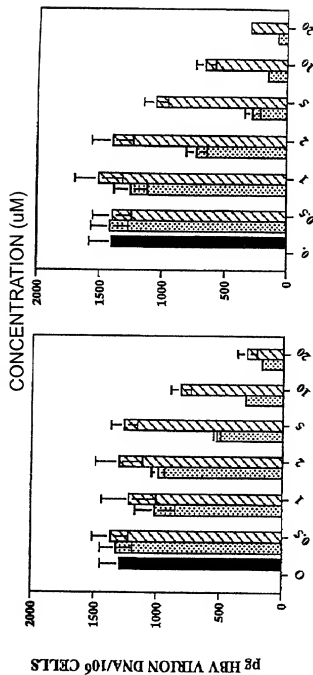


FIG. 20

